

U.S. Census Bureau

Local Employment Dynamics

All About Jobs

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Local Employment Dynamics: All About Jobs

Prepared by the LEHD Staff
December 2004

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Overview

- ✓ Local Employment Dynamics (LED)
- ✓ Status of LED
- ✓ Quarterly Workforce Indicators (QWI)
- ✓ Top Industries Tool
- ✓ Local Workforce Tool
- ✓ Mapping Tool
- ✓ Products and Information

Traditional Demographic and Economic Data



Workers

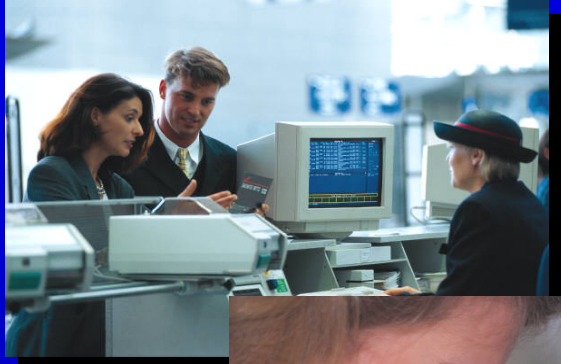
Households



Businesses



Local Employment Dynamics: The Concept



Merging
traditional
multiple data
“snapshots”
into
information
“movies” about
the U.S.
society and
economy



Local Employment Dynamics

Local

- State, county, sub-county, workforce investment areas

Employment

- Demographics (age and sex)
- Industry
- Earnings

Dynamics

- Time, quarterly (as far back as 1990)
- Job gains, losses and flows
- Hires, turnover and separations

What is Local Employment Dynamics (LED)?

- ✓ A voluntary partnership between state Labor Market Information (LMI) agencies and the Federal government
- ✓ States supply quarterly unemployment insurance wage records and ES-202 business establishment records
- ✓ The Census Bureau merges the records with other data to produce LED data

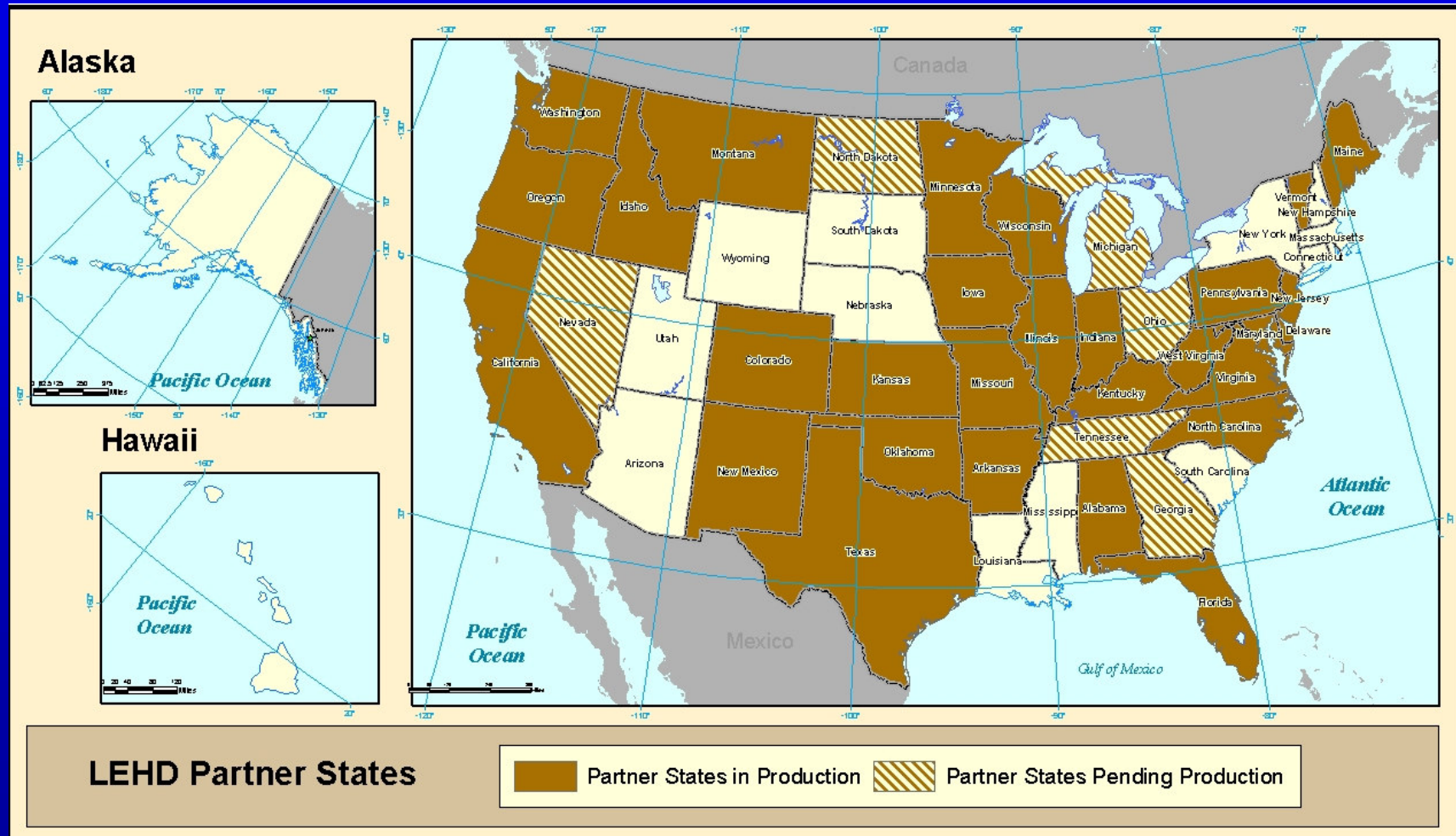
Confidentiality Protection

- ✓ Identity concealed
- ✓ Only approved projects
- ✓ Title 13 legislation (fine and prison if breached)
- ✓ Disclosure limitation procedures applied to all products
- ✓ Data do not leave Census Bureau's secure computer centers

Status of LED

- ✓ 34 states and the District of Columbia, about 76% of U.S. population, have signed agreements with the Census Bureau
- ✓ 29 states, about 67% of U.S. population, have started to send their data to the Census Bureau
- ✓ 22 states, about 57% of U.S. population, have Quarterly Workforce Indicators posted on the web site

LED Partner States



Who Uses LED Data?

What Do They Need To Know?

✓ Workforce Investment Boards

- Where are the jobs?
- How much do they pay?
- Who needs training?

✓ Employers

- Where are the workers?
- What is the pay?

✓ Economic Development Agencies

- What are the high growth industries?
- Where should a business locate?

✓ Transportation Planners

- How can workers get to their jobs?

Revised and Enhanced Home Page

<http://lehd.dsd.census.gov>

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Longitudinal Employer-Household Dynamics

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QUICK LINKS	WHAT'S NEW?	Q&A
<ul style="list-style-type: none"> ▶ QWI Online ▶ On The Map ▶ Local Workforce ▶ Top Industries 	<ul style="list-style-type: none"> ▶ 11/12/04: Nevada joins LED ▶ 11/08/04: LED Annual Workshop ▶ 10/05/04: Maryland's Work Force Remains on the Job, As It Ages ▶ 10/01/04: NSF Funds Confidentiality Research ▶ 09/20/04: Advisory to LED State Partners on Submission of ES202/QCEW Data Files <div>[more...]</div>	<ul style="list-style-type: none"> ▶ What is LEHD? ▶ What is LED? ▶ What are the QWI? ▶ Got more questions? Click here <div>[more...]</div>
<div> Local Employment Dynamics Confidentiality, State Partners, Partnership, Workshops and Training, Partners Only </div> <div> Data Tools QWI Online, On the Map, Local Workforce, Top Industries </div> <div> Research Research Data Center, Confidentiality Research, Low Wage Work, Human Capital & Productivity, Transportation, Aging & Pension Benefits </div>	<div> Library Profiles, Workshops, Training, Technical Papers, Presentations, Newsletters, Archives </div> <div> About Us Mission, Staff, Contact, Directions </div>	<div>DID YOU KNOW?</div> <p>...that among California industries that employed more than 4,000 workers 65 years and older in 2001, the highest paying was electronic and electrical equipment (\$5,005 a month)?</p>

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Quarterly Workforce Indicators Available On-line

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QWI Online
[QWI Online Home](#)

LEHD Maine Metro Reports - Quarterly Workforce Indicators
 Select Criteria below. A new report will be created below as selections change.

Year
 Geographic Grouping [County](#) | [Metro](#) | [WIA](#) or [Detailed Industry](#)

Quarter
 Metro

Sex
 Industry

AgeGroup
 Ownership

[Download Dataset](#)
[Print Table](#)

QWI Quick Facts	Portland,ME (Q2)	Portland,ME (Avg:previous 4 quarters)	Maine (Q2)	Maine (Avg:previous 4 quarters)
<input type="checkbox"/> Total Employment	17,138	17,366	56,118	56,773
<input type="checkbox"/> Net Job Flows	192	12	1,023	151
<input type="checkbox"/> Job Creation	1,432	1,299	5,592	4,640
<input type="checkbox"/> New Hires	2,835	2,910	9,483	9,500
<input type="checkbox"/> Separations	3,191	3,365	10,718	11,095
<input type="checkbox"/> Turnover	10.7%	11.0%	10.5%	11.0%
<input type="checkbox"/> Avg Monthly Earnings	\$2,219.00	\$2,213.75	\$1,977.00	\$1,963.50
<input type="checkbox"/> Avg New Hire Earnings	\$1,814.00	\$1,720.00	\$1,550.00	\$1,500.25

QWI “Pivot” or Comparison Tables

QWI Maine Metro Pivot Reports Portland,ME - Quarterly Workforce Indicators

Pivot Column

Data Row(s)

Year(s)

Metro (All Maine)
Industry
Sex
AgeGroup
OwnerCode
Year

Total Employment
Net Job Flows
Job Creation
New Hires
Separations
Turnover

2001
2002
2003

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Portland,ME, Maine

2003 1 - New Hires by AgeGroup

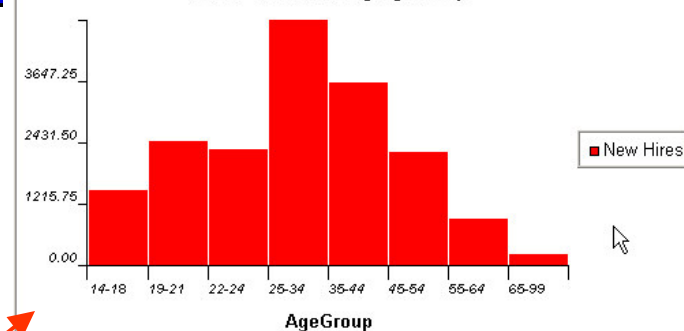


Chart Data - Portland,ME, Maine

AgeGroup =>	14-18	19-21	22-24	25-34	35-44	45-54	55-64	65-99
New Hires =>	1,492	2,463	2,305	4,863	3,641	2,264	938	225

Year	QWI Quickfacts	14-18	19-21	22-24	25-34	35-44	45-54	55-64	65-99
2003 1	Avg Monthly Earnings	\$426.00	\$993.00	\$1,599.00	\$2,524.00	\$3,329.00	\$3,584.00	\$3,204.00	\$1,683.00
	Avg New Hire Earnings	\$458.00	\$930.00	\$1,323.00	\$1,874.00	\$2,363.00	\$2,382.00	\$2,008.00	\$1,135.00
	Job Creation	782	1,134	1,078	1,973	1,715	1,243	599	162
	Net Job Flows	204	137	85	-259	-157	-268	-360	-251
	New Hires	1,492	2,463	2,305	4,863	3,641	2,264	938	225
	Separations	1,570	2,957	2,536	5,712	4,376	3,078	1,580	584
	Total Employment	5,118	7,502	9,053	34,405	41,042	35,828	17,247	4,345
	Turnover	19.9%	20.5%	16.1%	10.3%	7.0%	5.6%	5.8%	8.2%

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Top Industries Tool

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Top Industries

List the top industries ranked by the greatest:

- ☐ Total Employment
- ☐ Growth in Employment
- ☐ Growth in hiring
- ☐ Number of new hires
- ☐ Jobs added by new and expanding businesses
- ☒ Average monthly earnings for all workers
- ☐ Growth in average monthly earnings for all workers
- ☐ Average monthly earnings for new hires

What geographic area?

State:

WIB:

What age and sex?

Age:

Sex:

Top Industries for Females, 25-34, PG Co., MD, by Avg Monthly Earnings

Top Industries

Top 10 industries ranked on the greatest average monthly earnings for all workers

Industry	Average Monthly Earnings	Average Quarterly Employment
518 Internet Service Providers, Web Search Portals, and Data Processing Services	\$5,280	189
517 Telecommunications	\$4,959	346
334 Computer and Electronic Product Manufacturing	\$4,242	196
424 Merchant Wholesalers, Nondurable Goods	\$4,194	259
511 Publishing Industries (except Internet)	\$3,910	140
541 Professional, Scientific, and Technical Services	\$3,571	2,308
423 Merchant Wholesalers, Durable Goods	\$3,446	653
551 Management of Companies and Enterprises	\$3,231	178
532 Rental and Leasing Services	\$3,023	190
522 Credit Intermediation and Related Activities	\$3,015	983
All Industries Average Monthly Earnings = \$2,556 All Industries Average Quarterly Employment = 21,655		

State: Maryland

WIB: 08 Prince Georges WIA

Age: 25-34

Sex: Female

Data: 2003Q3 , 2003Q2 , 2003Q1 , 2002Q4

Local Workforce Tool

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Local Workforce

What do you want to find out about the workforce?

- ☐ Employee Distribution by Age and Sex ⓘ
- ☒ Employee Turnover by Age and Sex ⓘ
- ☐ Employee Retention Rates by Age and Sex ⓘ
- ☐ Employee Average Monthly Earnings ⓘ
- ☐ New Employee Average Monthly Earnings ⓘ
- ☐ Trends in Average Monthly Earnings ⓘ

What geographic area?

State:

County:

What industry?

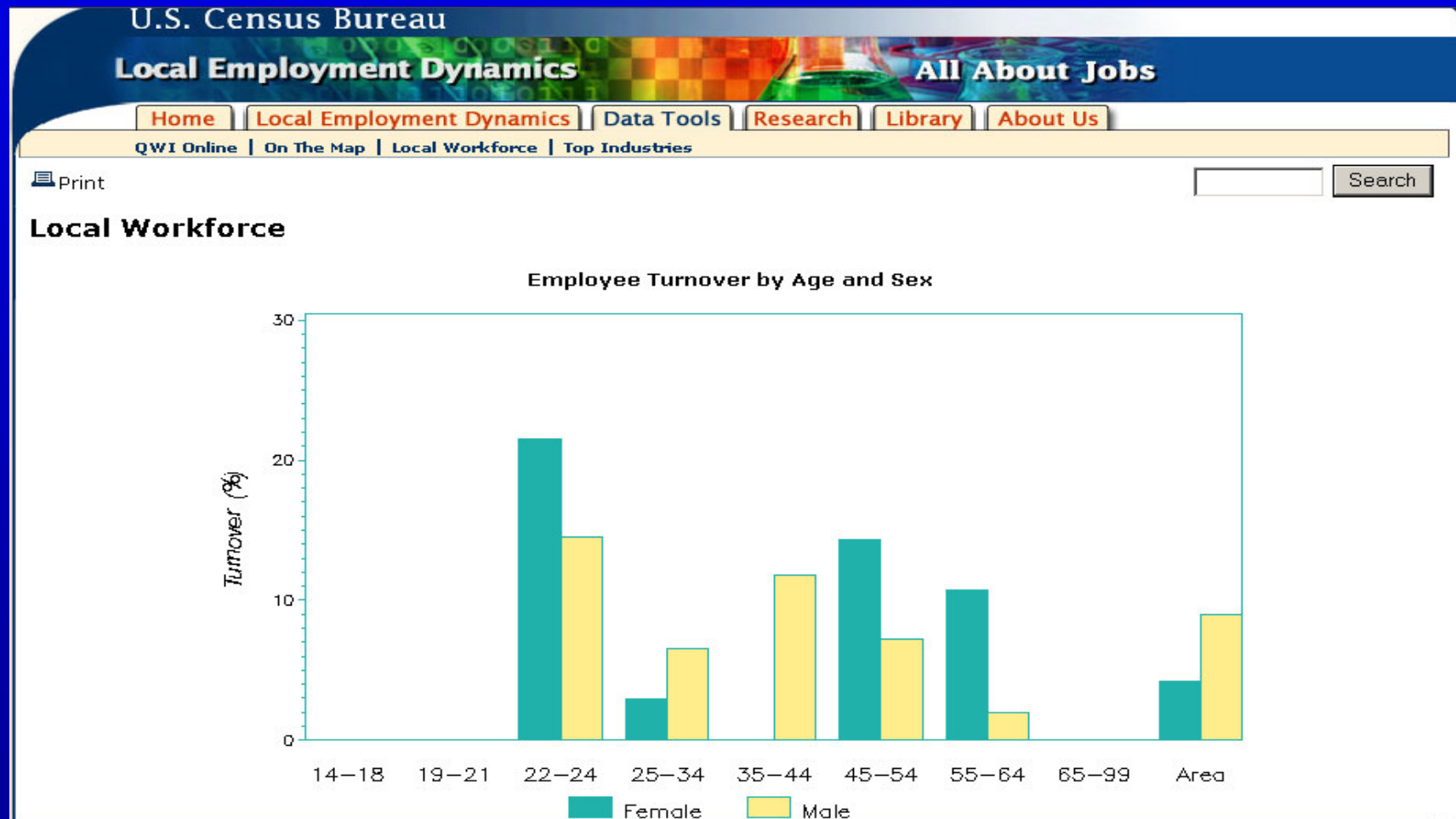
Sector:

Detailed Industry:

How do you want to display the results?

☒ ☒

Turnover Rate for Internet Publishing and Broadcasting, Arlington Co., VA



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Turnover Rate for Internet Publishing and Broadcasting, Arlington Co., VA, con't

	Age								
	14-18	19-21	22-24	25-34	35-44	45-54	55-64	65-99	Area
Female	S	0%	21.5%	2.9%	0%	14.3%	10.7%	S	4.2%
Male	S	S	14.5%	6.5%	11.8%	7.2%	2%	S	9%
<i>S=Suppressed, does not meet publication standards</i>									

State: Virginia

County: 013 Arlington County

Sector: 51 Information

Detailed Industry: 516 Internet Publishing and Broadcasting

Data: 2003Q2

Mapping Tool: Where ...

- ... are particular industries located?
- ... are high wage employment areas?
- ... are high growth employment areas?
- ... do workers live?

Mapping Tool: Commute Shed

LED Worker Origins and Destinations Commute Shed for the County of Ramsey and surrounding communities

Ready.

Drag the pin over the map to show the data.



Scale: 0 9 18 mi

Show Commute shed
Show Labor shed

Select Area Report

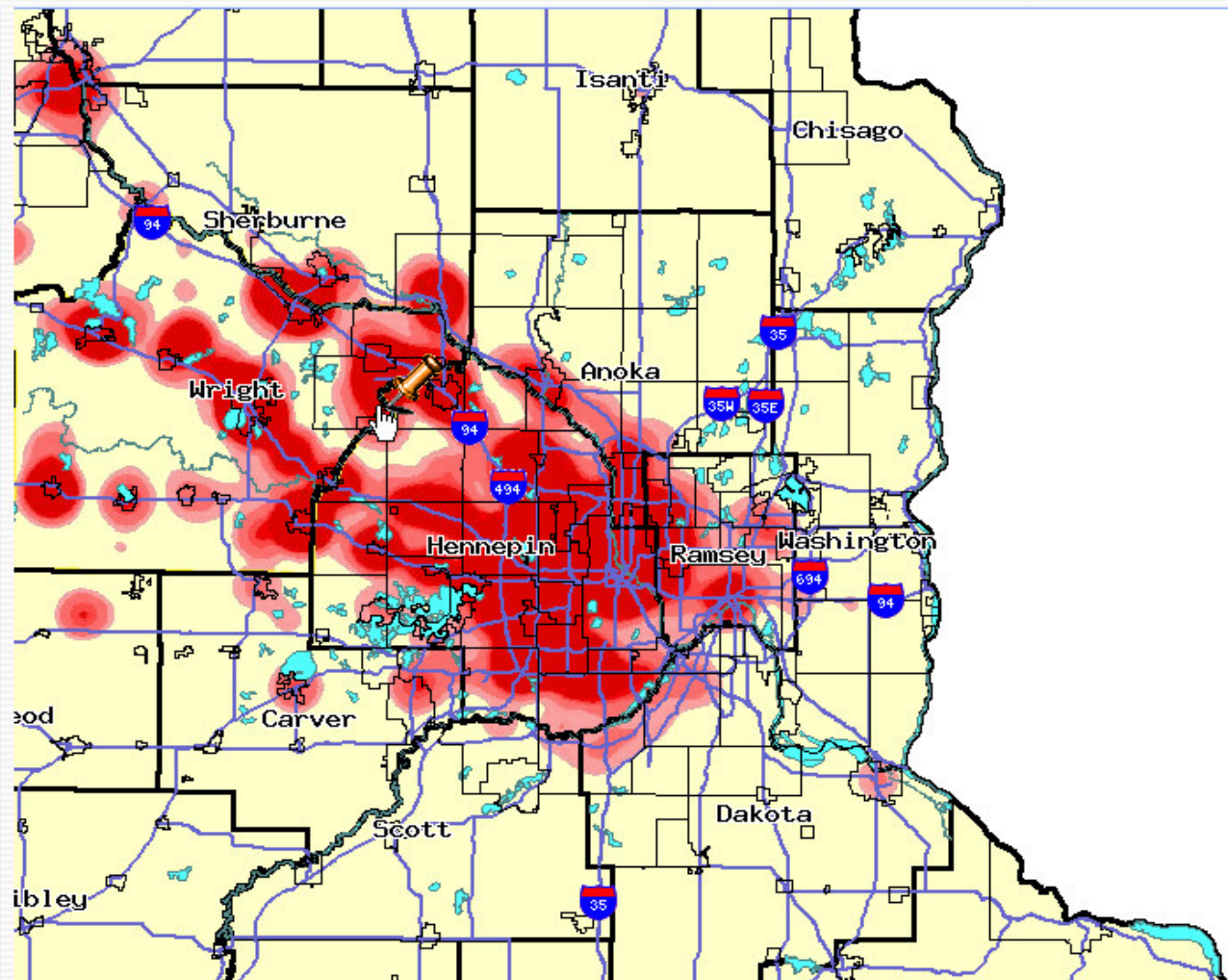
Entry Page

+ County Select

+ City Select

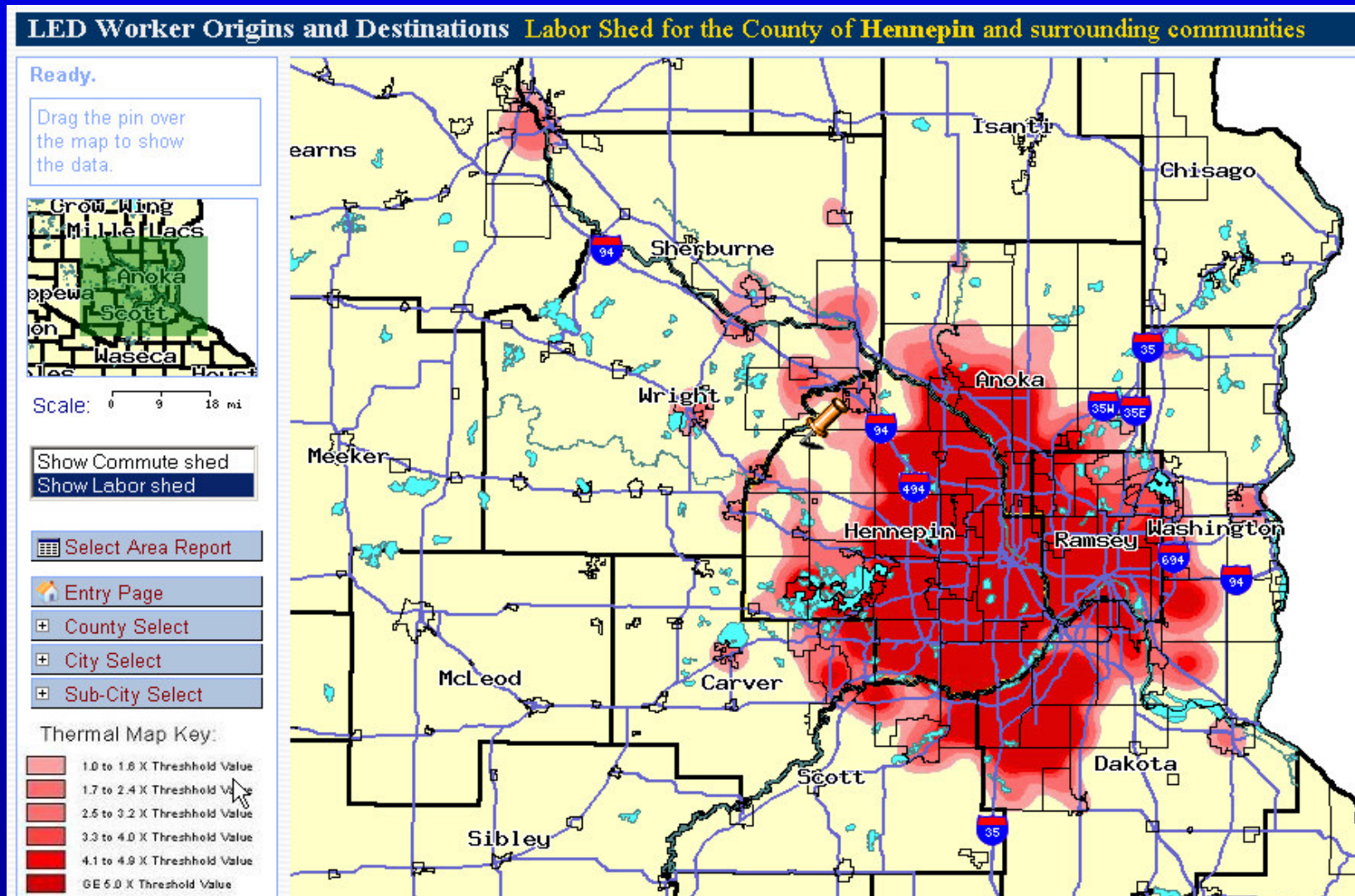
+ Sub-City Select

Thermal Map Key:



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Mapping Tool: Labor Shed



Mapping Tool: Reporting

County Labor Shed Composition Report - "Where the Workforce Comes From"

County of HENNEPIN

Employed Workforce Composition - Total Workers and Primary County of Origin

Worker Destinations	City Labor Force		Hennepin	
	Number	Share	Number	Share
Tracked Commuters (2nd Quarter, 2001)	729,432	100%	396,012	54%
Earning LT \$12,000	127,648	100%	67,175	52%
Earning \$12,000-\$34,999	252,680	100%	135,049	53%
Earning \$35,000 or More	349,104	100%	193,788	55%
Avg. Annual Earnings (2001 Estimate)	\$38,300		\$50,235	

Employed Workforce Composition - Labor Originating in Other Counties

Worker Destinations	Ramsey		Dakota		Anoka		Washington		Other MN Cities	
	Number	Share	Number	Share	Number	Share	Number	Share	Number	Share
Tracked Commuters (2nd Quarter, 2001)	70,648	9%	67,679	9%	57,932	7%	22,886	3%	114,275	15%
Earning LT \$12,000	13,335	10%	10,733	8%	10,190	7%	3,640	2%	22,575	17%
Earning \$12,000-\$34,999	25,942	10%	21,532	8%	21,027	8%	6,836	2%	42,294	16%
Earning \$35,000 or More	31,371	8%	35,414	10%	26,715	7%	12,410	3%	49,406	14%
Avg. Annual Earnings (2001 Estimate)	\$39,566		\$43,757		\$36,941		\$47,480		\$30,568	

12 Partner States in Mapping Pilot

- ✓ California, Colorado
- ✓ Florida, Idaho, Illinois
- ✓ Minnesota, Missouri
- ✓ North Carolina, Oregon
- ✓ Pennsylvania, Washington
- ✓ Virginia

Mapping Pilot Timeline

- ✓ Dec 30: Origin-Destination matrices produced
- ✓ Dec 30: Workplace and residence characteristics produced for Minnesota
- ✓ Jan 27-28, 2005: LED state workshop
- ✓ Mar 2-5: National Association of Workforce Boards Forum 2005 features LED mapping presentation
- ✓ Mar-Sept: Application rollout; training for state participants

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Products and Information

- ✓ <http://lehd.dsd.census.gov>
- ✓ Join the LEHD-General list serv
- ✓ Newsletters
- ✓ Conferences and workshops
- ✓ Special reports on selected topics
 - Profiles of Older Workers in Oregon, New Mexico, Iowa, Missouri, California, Illinois, Virginia, West Virginia and others

Positive Response from Our Users

“Having this type of data available at a local level will be an extremely valuable tool to help policy makers focus limited resources.”

Director, Idaho Department of Commerce

“The idea of partnering with states to develop clear, current and continuous data products that enable us to keep better abreast of labor market developments is both significant and novel.”

Secretary, Florida Board of Education

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